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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/138,378	08/24/1998	SHIGEKI HAMURA	1046.1188/JD	4007

21171 7590 09/24/2003

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WASHINGTON, DC 20005

EXAMINER
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GARCIA, GABRIEL I

ART UNIT	PAPER NUMBER
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2624

DATE MAILED: 09/24/2003

*JB*

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

09/138,378

Applicant(s)

Hamura et al.

Examiner

H. Marcia

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— The MAILING DATE of this communication appears on the cover sheet with the correspondence address —

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE Three MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 6/30/03.
- 2a) ☒ This action is FINAL. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1, 5, 6, 9, 10, 15, 16, 19-21, 24, 25 and 30 is/are pending in the application.
- 4a) Of the above, claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1, 5, 6, 9, 10, 15, 16, 19-21, 24, 25 and 30 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claims \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.  
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some\* c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  
\*See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).  
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

## Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s). 19622 6) ☐ Other:

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### DETAILED ACTION

1. This application has been examined. This office action is in response to the amendment filed 6/30/03.

#### *Claim Rejections - 35 USC § 102*

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371© of this title before the invention thereof by the applicant for patent.

3. Claims 1,5,6,9,10,15,16,19-21,24,25 and 30 are rejected under 35 U.S.C. 102(e) as being anticipated by Kageyama et al. (5,774,638).

With regard to claim 1, Kageyama et al. teaches a printer (figure 1, items 11 and 18) receiving and printing print data on one page (see fig. 1), the print data being received from a host computer (10) and comprising a plurality of different types of data (see col. 13, lines 57-61), the printer comprising: a separation unit separating the print data into separate sets of data according to the different types of data (e.g. col. 13, lines 57-61); an image buffer (i.e. figure 1, item 141 or 142) having a plurality of storage locations each storage location (i.e. figures 20-26, see also col. 27 and 28 and a storage unit storing each separate set of data in a different one of the storage locations of the image buffer (e.g. col. 3, line 10-20, col. 22, lines 62-67, and col. 23, lines 48-55,

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see also figure 26); a plurality of video interfaces (i.e. figure 1, items 104,114 and 124), independently reading a respective one of the separate sets of print data stored in a corresponding storage location of the image buffer (reads on figure 1, the interfaces (104,114 and 124) read the data from the shared memory (141) to be processed by the different image processors (107,117 and 127)); a print data integration circuit (reads on figure 1, item 100, which controls the integration of data to be printed by the print engine 18, see col. 3, line 55 thru col. 4, line 11) integrating the separate sets of data the video interfaces (e.g. col. 5, lines 41-53 and col. 29, lines 4-11); and an output mechanism (figure 1, item 18) outputting the integrated print data on one page (i.e. col. 3, line 55 thru col. 4, line 11 and col. 5, lines 41-53).

With regard to claim 4, Kageyama et al. further teaches a printer comprising a plurality of image processing circuits (fig. 1, item 100,110, or 120), each of the image processing circuits applying an image process to the separate set of data read by a corresponding one of the video interfaces (col. 5, lines 42-53).

With regard to claim 5, Kageyama et al. further teaches a plurality of separate sets of data stored in the image buffer are obtained by dividing print data to be printed data on one page into a plurality of bands, each of the bands corresponding to different types of data, and wherein the print data integration circuit alternately selects the separate set of data read by each of the video interfaces and outputs the selected set of data to the output mechanism (e.g. figures 20-24 and col. 5, lines 42-53).

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With regard to claims 6,9, and 10, the limitations of claims 6,9, and 10 are covered by the limitations of claims 2-5 above (e.g. part of the printer of claims 1,4 and 5 consist of the controller as claimed in claims 9 and 0).

With regard to claims 15,16,19-21,24-25 and 30, the limitations of claims 15,16,19-21,24-25 and 30 are covered by the limitations of claims 1,4, and 5 above.

### ***Conclusion***

4. Applicant's arguments filed 6/30/03 have been fully considered but they are not persuasive.

1. With regard applicant's argument that Kageyama does not teach separating the data to be printed into multiple data sets depending on the type of data comprising the data to be printed. Examiner disagrees with Applicant's argument. Examiner asserts that Kageyama teaches separating the data to be printed into multiple data sets depending on the type of data (see col. 13, lines 57-63).

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after

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the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gabriel I. Garcia whose telephone number is (703) 305-8751. The examiner can normally be reached Monday thru Thursday from 7:30AM-6:00PM.

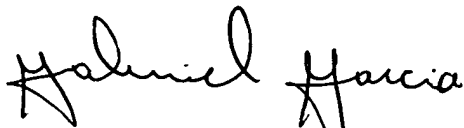
Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 306-0377.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks  
Washington, DC 20231

or faxed to:

(703) 872-9306 (official or unofficial)



**Gabriel I. Garcia**  
**Primary Examiner**  
**September 22, 2003**

**GABRIEL GARCIA**  
**PRIMARY EXAMINER**